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(PCT Rule 61.2)

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International filing date (day/month/year) 22 June 1999 (22.06.99)	Priority date (day/month/year) 23 June 1998 (23.06.98)
Applicant TETER, Beverly, B.	

1. The designated Office is hereby notified of its election made:

☒ in the demand filed with the International Preliminary Examining Authority on:

15 December 1999 (15.12.99)

☐ in a notice effecting later election filed with the International Bureau on:2. The election ☒ was☐ was not

made before the expiration of 19 months from the priority date or, where Rule 32 applies, within the time limit under Rule 32.2(b).

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Facsimile No.: (41-22) 740.14.35	Authorized officer Simin Baharlou Telephone No.: (41-22) 338.83.38
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INTERNATIONAL SEARCH REPORT

International application No.
PCT/US99/13894

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	WO 98/03066 A (KEMIRA CHEMICALS OY) 29 January 1998, see whole document, particularly, page 10, lines 15-20.	1-25
Y	US 5,550,145 A (OLUND et al.) 27 August 1996, see whole document	1-25
Y	US 4,002,775 A (KABARA) 11 January 1977, see whole document	1-25
Y	US 4,223,040 A (CARROLL) 16 Septemebr 1980, see whole document	1-25
Y	US 5,089,271 A (UNANGST) 18 February 1992, see whole document	1-25
Y	US 5,234,703 A (GUTHERY) 10 August 1993, see whole document	1-25
Y	US 5,336,500 A (RICHTER et al.) 09 August 1994, see whole document	1-25

WHAT IS CLAIMED IS:

1. A method for reducing the antibiotic content of animal feed comprising providing an animal feed to the animals, wherein the animal feed comprises an anti-microbial fatty acid component.
2. A method according to claim 1, wherein the anti-microbial fatty acid component is derived from a natural oil.
3. A method according to claim 2, where in the natural oil is a high lauric acid oil.
4. A method according to claim 2, wherein the high lauric acid oil is coconut oil, palm kernel oil, or high lauric acid rapeseed oil.
5. A method according to claim 3, wherein lauric acid in the high lauric acid oil comprises from 0.5 % to 10 % of the animal feed.
6. A method according to claim 5, wherein the animal feed is essentially free of other antibiotics.
7. A method according to claim 5, wherein antibiotics present in the animal feed comprise less than 50% of the optimal antibiotic supplement.
8. A method according to claim 5, wherein antibiotics present in the animal feed comprise less than 50% of the maximal antibiotic supplement.
9. A method according to claim 5, wherein the animals are chickens, turkeys, lambs or veal calves produced for human consumption.
10. A method according to claim 9, wherein the animal feed comprises less than 50% of the optimal antibiotic supplement for controlling *Salmonella typhimurium*.

11. A method according to claim 9, wherein the animal feed comprises less than 50% of the optimal antibiotic supplement for controlling *Salmonella typhimurium*.

12. An animal feed composition comprising an anti-microbial fatty acid component.

13. An animal feed composition according to claim 12, wherein the anti-microbial fatty acid component is derived from a natural oil.

14. An animal feed composition according to claim 13, wherein the natural oil is a high lauric acid oil.

15. An animal feed composition according to claim 14, wherein the high lauric acid oil is coconut oil, palm kernel oil, or a high lauric acid rapeseed oil.

16. An animal feed composition according to claim 14, wherein lauric acid in the high lauric acid oil comprises 0.5 % to 10 % of the animal feed.

17. An animal feed composition according to claim 14, wherein the animal feed composition is essentially free of other antibiotics.

18. An animal feed composition according to claim 14, wherein antibiotics in the animal feed comprise less than 50% of an optimal antibiotic supplement.

19. An animal feed composition according to claim 15, wherein antibiotics in the animal feed comprise less than 50% of a maximal antibiotic supplement.

20. An animal feed composition according to claim 15, wherein antibiotics in the animal feed comprise less than 50% of an optimal antibiotic supplement for controlling *Salmonella typhimurium*.

21. An animal feed composition according to claim 15, wherein antibiotics in the animal feed comprise less than 50% of an allowable antibiotic supplement for controlling *Salmonella typhimurium*.

22. An animal feed composition according to claim 16, wherein the feed composition is feed for chickens, turkeys, lambs or veal calves produced for human consumption.

23. A method for reducing the antibiotic content of an animal feed which contains antibiotics comprising replacing all or a portion of the antibiotics in the animal feed with an anti-microbial fatty acid component to obtain modified feed, wherein the antibiotic effect of the animal feed in enhancing feed efficiency is maintained in the modified feed.

24. A method according to claim 23, wherein less than 50% of an optimal antibiotic supplement is present in the modified feed.

25. A method according to claim 23, wherein less than 50% of an allowable antibiotic supplement is present in the modified feed.

Pending Claims as of 6-24-03 in Serial No.09/720,136
GROUP I

10. (Amended) An animal feed composition comprising crude protein and an anti-bacterial fatty acid component, wherein the anti-bacterial fatty acid component is a high lauric acid natural oil, or a derivative thereof having high lauric acid content.
11. An animal feed composition according to claim 10, wherein the high lauric acid oil is coconut oil, palm kernel oil, or a high lauric acid rapeseed oil.
12. An animal feed composition according to claim 10, wherein lauric acid in the high lauric acid oil, or derivative thereof, comprises 0.5 % to 10 % of the animal feed.
13. An animal feed composition according to claim 10, wherein the animal feed composition is essentially free of other antibiotics.
14. An animal feed composition according to claim 10, wherein antibiotics in the animal feed comprise less than 50% of an optimal antibiotic supplement.
15. An animal feed composition according to claim 10, wherein antibiotics in the animal feed comprise less than 50% of a maximal antibiotic supplement.
16. An animal feed composition according to claim 10, wherein antibiotics in the animal feed comprise less than 50% of an optimal antibiotic supplement for controlling *Salmonella typhimurium*.
17. An animal feed composition according to claim 10, wherein antibiotics in the animal feed comprise less than 50% of an allowable antibiotic supplement for controlling *Salmonella typhimurium*.
18. An animal feed composition according to claim 10, wherein the feed composition is fed for chickens, turkeys, lambs or veal calves produced for human consumption.

GROUP II

22. (Amended) An animal feed composition comprising an anti-bacterial fatty acid component and at least one antibiotic, wherein the anti-bacterial fatty acid component is a high lauric acid natural oil, or a derivative thereof having high lauric acid content.

24. An animal feed composition according to claim 22, wherein lauric acid in the high lauric acid oil, or derivative thereof, comprises 0.5 % to 10 % of the animal feed.

25. An animal feed composition according to claim 22, wherein the combined amount of at least one antibiotic and at least one anti-bacterial fatty acid component in the animal feed is sufficient to promote the health of the animal as compared to the feed composition without the added antibiotic and without the added anti-bacterial fatty acid component.

26. An animal feed composition according to claim 22, wherein the combined amount of at least one antibiotic and at least one anti-bacterial fatty acid component in the animal feed is sufficient to enhance growth of the animal as compared to the feed composition without the added antibiotic and without the added anti-bacterial fatty acid component.

27. An animal feed composition according to claim 26, wherein antibiotics in the animal feed comprise less than 50% of an optimal antibiotic supplement.

28. An animal feed composition according to claim 27, which provides at least 85% of the optimal feed efficiency achievable for the diet and antibiotic supplement.

29. (Amended) An animal feed composition comprising an anti-bacterial fatty acid component and at least one antibiotic, wherein the combined amount of at least one antibiotic and at least one anti-bacterial fatty acid component in the animal feed is sufficient to enhance growth of the animal as compared to the feed composition without the added antibiotic and without the added anti-bacterial fatty acid component, wherein antibiotics in the animal feed comprise less than 50% of a maximal antibiotic supplement.

31. (Amended) An animal feed composition comprising an anti-bacterial fatty acid component and at least one antibiotic, wherein antibiotics in the animal feed comprise less than 50% of an optimal antibiotic supplement for controlling *Salmonella typhimurium*.

32. An animal feed composition according to claim 31, which provides at least 85% of the optimal *Salmonella typhimurium* control achievable for the diet and antibiotic supplement.

33. An animal feed composition according to claim 22, wherein antibiotics in the animal feed comprise less than 50% of an allowable antibiotic supplement for controlling *Salmonella typhimurium*.

34. An animal feed composition according to claim 33, which provides at least 85% of the maximum *Salmonella typhimurium* control achievable for the diet and antibiotic supplement.

35. An animal feed composition according to claim 22, wherein the feed composition is feed for chickens, turkeys, lambs or veal calves produced for human consumption or a supplement to be added to feed for chickens, turkeys, lambs or veal calves produced for human consumption.

GROUP III

36. (Amended) An animal feed composition comprising an anti-bacterial fatty acid component in an amount sufficient to promote the health of said animal,

wherein said anti-bacterial fatty acid component is incorporated in said feed in a manner which does not protect said feed composition from microbial spoilage and wherein the anti-bacterial fatty acid component is a high lauric acid natural oil, or a derivative thereof having high lauric acid content.

38. (Amended) An animal feed composition according to claim 36, wherein lauric acid in the high lauric acid oil, or derivative thereof, comprises 2 % to 10 % of the animal feed.

39. An animal feed composition according to claim 36, wherein the animal feed composition is essentially free of other antibiotics.

40. An animal feed composition according to claim 36, additionally comprising at least one antibiotic wherein the combined amount of at least one antibiotic and at least one anti-bacterial fatty acid component in the animal feed is sufficient to enhance growth of the animal as compared to the feed composition without the added antibiotic and without the added anti-bacterial fatty acid component.

41. An animal feed composition according to claim 40, wherein antibiotics in the animal feed comprise less than 50% of an optimal antibiotic supplement.

42. An animal feed composition according to claim 40, wherein antibiotics in the animal feed comprise less than 50% of a maximal antibiotic supplement.

43. An animal feed composition according to claim 40, wherein antibiotics in the animal feed comprise less than 50% of an optimal antibiotic supplement for controlling *Salmonella typhimurium*.

44. An animal feed composition according to claim 40, wherein antibiotics in the animal feed comprise less than 50% of an allowable antibiotic supplement for controlling *Salmonella typhimurium*.

45. An animal feed composition comprising an anti-bacterial fatty acid component which promotes the health of said animal, wherein the amount of said anti-bacterial fatty acid component falls within the range of 2% to 7% by weight of said animal feed composition.

46. An animal feed composition according to claim 45, wherein the anti-bacterial fatty acid component is a high lauric acid natural oil, or a derivative thereof having high lauric acid content.

47. An animal feed composition according to claim 45, wherein the animal feed composition is essentially free of other antibiotics.

48. An animal feed composition according to claim 45, additionally comprising at least one antibiotic.

49. An animal feed composition according to claim 48, wherein the combined amount of at least one antibiotic and at least one anti-bacterial fatty acid component in the animal feed is sufficient to enhance growth of the animal as compared to the feed composition without the added antibiotic and without the added anti-bacterial fatty acid component.

50. An animal feed composition according to claim 45, wherein the feed composition is feed for chickens, turkeys, lambs or veal calves produced for human consumption.



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